

<!--StartFragment-->RESULT 2

ABA00656

ID ABA00656 standard; cDNA; 3400 BP.

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AC ABA00656;

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DT 19-FEB-2003 (first entry)

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DE Human ENZM-4 cDNA, incyte ID No: 3535146CB1.

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KW Gene; ENZM; cardiovascular disorder; arteriovenous fistula; prostate;
 KW atherosclerosis; hypertension; Raynaud's disease; aneurysm; cervix;
 KW varicose vein; thrombophlebitis; congestive heart failure; brain; breast;
 KW angina pectoris; ischaemic; heart disease; autoimmune; inflammation;
 KW acquired immunodeficiency syndrome; anaemia; asthma; Crohn's disease;
 KW neurological disorder; epilepsy; Huntington's disease; dementia; stroke;
 KW Alzheimer's disease; Creutzfeldt-Jakob disease; multiple sclerosis;
 KW cerebral palsy; Parkinson's disease; anxiety; schizophrenia; amnesia;
 KW metabolic disorder; Addison's disease; goitre; infection; sarcoma;
 KW pneumonia; hepatitis; influenza; immune deficiency; thymic dysplasia;
 KW severe combined immunodeficiency disease; reproduction; infertility;
 KW endometriosis; prostatitis; Peyronie's disease; impotence; eye disorder;
 KW glaucoma; ocular hypertension; cell proliferation; psoriasis; myeloma;
 KW polycythemia vera; cancer; adenocarcinoma; leukemia; lymphoma; melanoma;
 KW MDMCSF; ss.

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OS Homo sapiens.

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FH Key Location/Qualifiers

FT CDS 66..3002

FT /*tag= a

FT /product= "ENZM-4 protein"

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PN WO20028373-A2.

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PD 24-OCT-2002.

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PF 10-APR-2002; 2002WO-US015253.

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PR 13-APR-2001; 2001US-0283793P.

PR 16-MAY-2001; 2001US-0291544P.

PR 25-MAY-2001; 2001US-0293572P.

PR 27-JUL-2001; 2001US-0308182P.

PR 09-AUG-2001; 2001US-0311447P.

PR 29-AUG-2001; 2001US-0315874P.

PR 14-SEP-2001; 2001US-0322181P.

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PA (INCY-) INCYTE GENOMICS INC.

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PI Tang YT, Yue H, Sanjanwala MM, Ramkumar J, Yao MG, Swarnakar A;
 PI Ding L, Elliott VS, Griffin JA, Li JX, Lal PG, Lu DAM, Lu Y;
 PI Gorvad AB, Forsythe IJ, Duggan BM, Thangavelu K, Emerling BM;
 PI Hafalia AJA, Baughn MR, Becha S, Sprague WW;
 XX

DR WPI; 2003-075542/07.
 DR P-PSDB; AAG79674.
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PT New human enzymes and polynucleotides, useful for diagnosing, treating or
 PT preventing cardiovascular disorders (e.g. aneurysms), neurological
 PT disorders (e.g. Parkinson's disease), cancers or autoimmune/inflammatory
 PT disorders.
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PS Claim 5; Page 194-95; 203pp; English.
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CC The sequences given in ABA00653-64 encode human enzymes designated ENZM.
 CC The polypeptide or polynucleotide of the invention are useful for
 CC treating a disease or condition associated with decreased expression of
 CC functional ENZM. Antagonists of ENZM are useful for treating a disease or
 CC condition associated with overexpression of functional ENZM. Anti-ENZM
 CC antibodies are particularly useful for diagnosing, treating or preventing
 CC cardiovascular disorders (e.g. arteriovenous fistula, atherosclerosis,
 CC hypertension, Raynaud's disease, aneurysms, varicose veins,
 CC thrombophlebitis, congestive heart failure, angina pectoris, ischaemic
 CC heart disease or rheumatic heart disease), autoimmune/inflammatory
 CC disorders (e.g. acquired immunodeficiency syndrome, anaemia, asthma, or
 CC Crohn's disease), neurological disorders (e.g. epilepsy, Huntington's
 CC disease, dementia, stroke, Alzheimer's disease, Creutzfeldt-Jakob
 CC disease, multiple sclerosis, cerebral palsy, Parkinson's disease,
 CC anxiety, schizophrenia or amnesia), metabolic disorders (e.g. Addison's
 CC disease or goitre), infectious disorders (e.g. viral infection,
 CC pneumonia, hepatitis or influenza), immune deficiencies (e.g. thymic
 CC dysplasia or severe combined immunodeficiency disease), reproductive
 CC disorders (e.g. infertility, endometriosis, prostatitis, Peyronie's disease
 CC or impotence), eye disorders (e.g. glaucoma or ocular hypertension), or
 CC cell proliferative disorders (e.g. psoriasis, polycythemia vera, or
 CC cancers including adenocarcinoma, leukemia, lymphoma, melanoma, myeloma,
 CC sarcoma, or cancers of the brain, breast, cervix or prostate). The
 CC protein encoded by this sequence is homologous to human MDMCSF
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SQ Sequence 3400 BP; 894 A; 809 C; 908 G; 789 T; 0 U; 0 Other;

Query Match 100.0%; Score 2934; DB 8; Length 3400;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 2934; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGGGCACGCGTCTGCCGCTCGTCTGCGCCAGCTCCGCCGCCGCCGCCAGCCCCGGGG 60
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 66 ATGGGCACGCGTCTGCCGCTCGTCTGCGCCAGCTCCGCCGCCGCCGCCAGCCCCGGGG 125

Qy	61	CCTCCGCGCCGCTCCGTGTGCCCTGTGCGCTAGCAGCGGCGGCGGAGGCGGCGGC	120
Db	126	CCTCCGCGCCGCTCCGTGTGCCCTGTGCGCTAGCAGCGGCGGCGGAGGCGGCGGC	185
Qy	121	GGTGGCCGGGAGGGCCTGCTTGGACAGCGGCGGCCGAGGATGGCCAGGCCCGGAGCAGC	180
Db	186	GGTGGCCGGGAGGGCCTGCTTGGACAGCGGCGGCCGAGGATGGCCAGGCCCGGAGCAGC	245
Qy	181	TGCAGCCCCGGCGGCCGAACGCCGCGGCGGGACTCCATCGTCAGAGAAGTCATTACAG	240
Db	246	TGCAGCCCCGGCGGCCGAACGCCGCGGCGGGACTCCATCGTCAGAGAAGTCATTACAG	305
Qy	241	AATTCAAAAGAAGTTCTAAGTTTATTGCAAGAAAAAACCCCTGCCTTCAAGCCGGTTCTT	300
Db	306	AATTCAAAAGAAGTTCTAAGTTTATTGCAAGAAAAAACCCCTGCCTTCAAGCCGGTTCTT	365
Qy	301	GCAATTATCCAGGCAGGTGACGACAACCTTGATGCAGGAAATCAACCAGAATTGGCTGAG	360
Db	366	GCAATTATCCAGGCAGGTGACGACAACCTTGATGCAGGAAATCAACCAGAATTGGCTGAG	425
Qy	361	GAGGCTGGTCTGAACATCACTCACATTGCTCCCTCCAGATAGCAGTGAAGCCGAGATT	420
Db	426	GAGGCTGGTCTGAACATCACTCACATTGCTCCCTCCAGATAGCAGTGAAGCCGAGATT	485
Qy	421	ATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTTGCCCTTCAGATC	480
Db	486	ATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTTGCCCTTCAGATC	545
Qy	481	TCTGAGAACTTGTTTAGCAACAAAGTCCTCAATGCCTTGAAACCAGAAAAAGATGTGGAT	540
Db	546	TCTGAGAACTTGTTTAGCAACAAAGTCCTCAATGCCTTGAAACCAGAAAAAGATGTGGAT	605
Qy	541	GGAGTAACAGACATAAACCTGGGGAAGCTGGTGCAGGGGATGCCCATGAATGTTTTGTT	600
Db	606	GGAGTAACAGACATAAACCTGGGGAAGCTGGTGCAGGGGATGCCCATGAATGTTTTGTT	665
Qy	601	TCACCTGTTGCCAAAGCTGTAATTGAACTTCTTGAAAAATCAGGTGTCAACCTAGATGGA	660
Db	666	TCACCTGTTGCCAAAGCTGTAATTGAACTTCTTGAAAAATCAGGTGTCAACCTAGATGGA	725
Qy	661	AAGAAGATTTTGGTAGTGGGGGCCATGGGTCTTTGGAAGCTGCTCTACAATGCCTGTTT	720
Db	726	AAGAAGATTTTGGTAGTGGGGGCCATGGGTCTTTGGAAGCTGCTCTACAATGCCTGTTT	785
Qy	721	CAGAGAAAAGGTCCATGACAATGAGCATCCAGTGGAACACGCCAGCTTCAAAGCAAG	780
Db	786	CAGAGAAAAGGTCCATGACAATGAGCATCCAGTGGAACACGCCAGCTTCAAAGCAAG	845

Qy	781	CTTCACGAGGCTGACATTGTGGTCCTAGGCTCACCTAAGCCAGAAGAGATCCCCCTTACT	840
Db	846	CTTCACGAGGCTGACATTGTGGTCCTAGGCTCACCTAAGCCAGAAGAGATCCCCCTTACT	905
Qy	841	TGGATACAACCAGGAACACTACTGTTCTCAACTGCTCCCATGACTTCTGTGAGGGAAGGTT	900
Db	906	TGGATACAACCAGGAACACTACTGTTCTCAACTGCTCCCATGACTTCTGTGAGGGAAGGTT	965
Qy	901	GGGTGTGGCTCTCCAAGAATACATTTTGGTGGACTCATTGAGGAAGATGATGTGATTCTC	960
Db	966	GGGTGTGGCTCTCCAAGAATACATTTTGGTGGACTCATTGAGGAAGATGATGTGATTCTC	1025
Qy	961	CTTGCTGCAGCTCTGCGAATTGAGAACATGGTCAGTAGTGGAAGGAGATGGCTTCGTGAA	1020
Db	1026	CTTGCTGCAGCTCTGCGAATTGAGAACATGGTCAGTAGTGGAAGGAGATGGCTTCGTGAA	1085
Qy	1021	CAGCAGCACAGGCGGTGGAGACTTCACTGCTTGAAACTTCAGCCTCTCTCCCTGTGCCA	1080
Db	1086	CAGCAGCACAGGCGGTGGAGACTTCACTGCTTGAAACTTCAGCCTCTCTCCCTGTGCCA	1145
Qy	1081	AGTGACATTGAGATTTCAAGAGGACAAACTCCAAAGCTGTGGATGTCCTTGCCAAGGAG	1140
Db	1146	AGTGACATTGAGATTTCAAGAGGACAAACTCCAAAGCTGTGGATGTCCTTGCCAAGGAG	1205
Qy	1141	ATTGGATTGCTTGCAGATGAAATTGAAATCTATGGCAAAAGCAAAGCCAAAGTACGTTTG	1200
Db	1206	ATTGGATTGCTTGCAGATGAAATTGAAATCTATGGCAAAAGCAAAGCCAAAGTACGTTTG	1265
Qy	1201	TCCGTGCTAGAAAGGTTAAAGGATCAAGCAGATGAAAAATACGCTTTAGTTGCTGGGATC	1260
Db	1266	TCCGTGCTAGAAAGGTTAAAGGATCAAGCAGATGAAAAATACGCTTTAGTTGCTGGGATC	1325
Qy	1261	ACACCCACCCCTCTTGGAGAAGGGAAGAGCACAGTCACCATCGGGCTTGTGCAGGCTCTG	1320
Db	1326	ACACCCACCCCTCTTGGAGAAGGGAAGAGCACAGTCACCATCGGGCTTGTGCAGGCTCTG	1385
Qy	1321	ACCGCACACCTGAATGTCAACTCCTTTGCCTGCTTGAGGCAGCCTTCCCAAGGACCGACG	1380
Db	1386	ACCGCACACCTGAATGTCAACTCCTTTGCCTGCTTGAGGCAGCCTTCCCAAGGACCGACG	1445
Qy	1381	TTTGAGTGAAAGGAGGAGCCGCGGGTGGTGATATGCCAGGTCATCCCCATGGAGGAG	1440
Db	1446	TTTGAGTGAAAGGAGGAGCCGCGGGTGGTGATATGCCAGGTCATCCCCATGGAGGAG	1505
Qy	1441	TTCAACCTTCACTTGACTGGAGACATCCACGCCATCACCCTGCCAATAACTTGCTGGCT	1500
Db	1506	TTCAACCTTCACTTGACTGGAGACATCCACGCCATCACCCTGCCAATAACTTGCTGGCT	1565
Qy	1501	GCCGCCATCGACACGAGGATTCTTCATGAAAACACGCAAAACAGATAAGGCTCTGTATAAT	1560

Db	1566		GCCGCCATCGACACGAGGATTCTTCATGAAAACACGCAAACAGATAAGGCTCTGTATAAT	1625
Qy	1561		CGGCTGGTTCCTTTAGTGAATGGTGTGAGAGAATTTTCAGAAATTCAGCTTGCTCGGCTA	1620
Db	1626		CGGCTGGTTCCTTTAGTGAATGGTGTGAGAGAATTTTCAGAAATTCAGCTTGCTCGGCTA	1685
Qy	1621		AAAAAACTGGGAATAAATAAGACTGATCCGAGCACACTGACAGAAGAGGAAGTGAGTAAA	1680
Db	1686		AAAAAACTGGGAATAAATAAGACTGATCCGAGCACACTGACAGAAGAGGAAGTGAGTAAA	1745
Qy	1681		TTTGCCCGTCTCGACATCGACCCATCTACCATCACGTGGCAGAGAGTATTGGATACAAAT	1740
Db	1746		TTTGCCCGTCTCGACATCGACCCATCTACCATCACGTGGCAGAGAGTATTGGATACAAAT	1805
Qy	1741		GACCGATTCTACGAAAAATAACCATCGGGCAGGGAAACACAGAGAAGGGCCATTACCGG	1800
Db	1806		GACCGATTCTACGAAAAATAACCATCGGGCAGGGAAACACAGAGAAGGGCCATTACCGG	1865
Qy	1801		CAGGCGCAGTTTGACATCGCAGTGGCCAGCGAGATCATGGCGGTGCTGGCCCTGACGGAC	1860
Db	1866		CAGGCGCAGTTTGACATCGCAGTGGCCAGCGAGATCATGGCGGTGCTGGCCCTGACGGAC	1925
Qy	1861		AGCCTCGCAGACATGAAGGCACGGCTGGGAAGGATGGTGGTGGCCAGTGACAAAAGCGGG	1920
Db	1926		AGCCTCGCAGACATGAAGGCACGGCTGGGAAGGATGGTGGTGGCCAGTGACAAAAGCGGG	1985
Qy	1921		CAGCCTGTGACAGCAGATGATTGGGGGTGACAGGTGCTTTGACAGTTTGTATGAAAGAT	1980
Db	1986		CAGCCTGTGACAGCAGATGATTGGGGGTGACAGGTGCTTTGACAGTTTGTATGAAAGAT	2045
Qy	1981		GCAATAAAACCAAACCTGATGCAGACCCTGGAAGGGACACCTGTGTTCTGTCATGCGGGC	2040
Db	2046		GCAATAAAACCAAACCTGATGCAGACCCTGGAAGGGACACCTGTGTTCTGTCATGCGGGC	2105
Qy	2041		CCTTTTGCTAACATTGCTCACGGCAACTCTTCAGTGTGGCTGATAAAATTGCCCTGAAA	2100
Db	2106		CCTTTTGCTAACATTGCTCACGGCAACTCTTCAGTGTGGCTGATAAAATTGCCCTGAAA	2165
Qy	2101		CTGGTTGGTGGAAGAAGGATTGTAGTGACCGAAGCTGGCTTTGGTGTGACATCGGAATG	2160
Db	2166		CTGGTTGGTGGAAGAAGGATTGTAGTGACCGAAGCTGGCTTTGGTGTGACATCGGAATG	2225
Qy	2161		GAGAAATTCTTCAACATCAAGTGCCGAGCTTCCGGCTTGGTGCCCAACGTGGTTGTGTTA	2220
Db	2226		GAGAAATTCTTCAACATCAAGTGCCGAGCTTCCGGCTTGGTGCCCAACGTGGTTGTGTTA	2285
Qy	2221		GTGGCAACGGTGCAGACTCTGAAGATGCATGAGGCGGGCCAAAGTGTAACGGCTGGTGTT	2280

Db	2286	GTGGCAACGGTGCAGACTCTGAAGATGCATGGAGGCGGGCCAAGTGTAAACGGCTGGTGT	2345
Qy	2281	CCTCTTAAGAAAGAATATACAGAGGAGAATCCAGCTGGTGGCAGACGGCTGCTGTAAC	2340
Db	2346	CCTCTTAAGAAAGAATATACAGAGGAGAATCCAGCTGGTGGCAGACGGCTGCTGTAAC	2405
Qy	2341	CTCCAGAAGCAAATTCAGATCACTCAGCTCTTTGGGGTTCCCGTTGTGGTGGCTCTGAAT	2400
Db	2406	CTCCAGAAGCAAATTCAGATCACTCAGCTCTTTGGGGTTCCCGTTGTGGTGGCTCTGAAT	2465
Qy	2401	GTCTTCAAGACCGACACCCGCGCTGAGATTGACTTGGTGTGTGAGCTTGCAAAGCGGGCT	2460
Db	2466	GTCTTCAAGACCGACACCCGCGCTGAGATTGACTTGGTGTGTGAGCTTGCAAAGCGGGCT	2525
Qy	2461	GGTGCCTTTGATGCAGTCCCTGCTATCACTGGTCGGTTGGTGGAAAAGGATCGGTGGAC	2520
Db	2526	GGTGCCTTTGATGCAGTCCCTGCTATCACTGGTCGGTTGGTGGAAAAGGATCGGTGGAC	2585
Qy	2521	TTGGCTCGGGCTGTGAGAGAGGCTGCGAGTAAAAGAAGCCGATTCCAGTTCCTGTATGAT	2580
Db	2586	TTGGCTCGGGCTGTGAGAGAGGCTGCGAGTAAAAGAAGCCGATTCCAGTTCCTGTATGAT	2645
Qy	2581	GTTTCAGGTTCCAATTGTGGACAAGATAAGGACCATTGCTCAGGCTGTCTATGGAGCCAAA	2640
Db	2646	GTTTCAGGTTCCAATTGTGGACAAGATAAGGACCATTGCTCAGGCTGTCTATGGAGCCAAA	2705
Qy	2641	GATATTGAACTCTCTCCTGAGGCACAAGCCAAAATAGATCGTTACACTCAACAGGGTTTT	2700
Db	2706	GATATTGAACTCTCTCCTGAGGCACAAGCCAAAATAGATCGTTACACTCAACAGGGTTTT	2765
Qy	2701	GGAAATTTGCCCATCTGCATGGCAAAGACCCACCTTTCTCTATCTCACCAACCTGACAAA	2760
Db	2766	GGAAATTTGCCCATCTGCATGGCAAAGACCCACCTTTCTCTATCTCACCAACCTGACAAA	2825
Qy	2761	AAAGGTGTGCCAAGGGACTTCATCTTACCTATCAGTGACGTCCGGGCCAGCATAGGCGCT	2820
Db	2826	AAAGGTGTGCCAAGGGACTTCATCTTACCTATCAGTGACGTCCGGGCCAGCATAGGCGCT	2885
Qy	2821	GGGTTCATTACCTTTGGTCGGAACGATGAGCACCATGCCAGGACTGCCACCCGGCCC	2880
Db	2886	GGGTTCATTACCTTTGGTCGGAACGATGAGCACCATGCCAGGACTGCCACCCGGCCC	2945
Qy	2881	TGCTTTTATGACATAGATCTTGATACCGAAACAGAACAAAGTTAAAGGCTTGTTT	2934
Db	2946	TGCTTTTATGACATAGATCTTGATACCGAAACAGAACAAAGTTAAAGGCTTGTTT	2999

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